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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,568	07/27/2000	Kenneth John Aagaard	CBS 2000-01	9613

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EXAMINER

YE, LIN

ART UNIT PAPER NUMBER

2612

DATE MAILED: 06/07/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/626,568

Applicant(s)

AAGAARD ET AL.

Examiner

Lin Ye

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2-5</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 6 recites the limitation "...the computer..." in page 14, line 1. There is insufficient antecedent basis for this limitation in the claim.

The examiner suggests that the applicant should changes "the computer" to -- the control system--.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Yuen U.S. Publication 2002/0005902.

Referring to claim 1, the Yuen reference discloses in Figure 1, a video imaging system, the system comprising: a master video camera (camera 104 operating in wide-angle, see [0013]) for producing video images of a moving object (100) of interest; a plurality of additional video cameras (108 and 112) each positioned at a different location for producing additional video images of the object of interest from different spatial perspectives; and a control system for controlling said additional video cameras in response to the master video camera to follow movement of the object of interest (e.g., the master camera 104 may pan,

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tilt or zoom depend on if the field of view and resolution of master camera 104 are sufficient to follow the interest target 100 as it moves from place to place for determining the target 100 in three-dimensional space; and at least one additional camera operates in a pan/tilt/zoom-in mode relative to the master camera. See [0015]).

Referring to claim 7, the Yuen reference discloses all subject matter as discussed with respect to same comment as with claim 1.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by McClintock U.S. Patent 5,598,208.

Referring to claim 11, the McClintock reference discloses in Figure 1-4, a method of generating a television image, said method comprising the steps of: producing a plurality of video images (by a plurality of video cameras 22, see Col. 4, lines 62) of an object of interest from a plurality of spatial perspectives (i.e., the position of the cars 18 of the roller coaster); displaying one of said video images for a period of time; selecting a frame in the displayed video image; and switching the displayed video image among a plurality of corresponding frames of said plurality of video images to display the object of interest from multiple spatial perspectives (See Col. 5, lines 52-65 and Col. 6, lines 19-35).

Referring to claim 12, the McClintock reference discloses in Figure 3, a display for displaying another one of the plurality of video images.

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Referring to claim 13, the Yuen and McClintock references disclose all subject matter as discussed with respected to same comment as with claim 11.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 2, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen U.S. Publication 2002/0005902 in view of Honey et al. U.S. Patent 5,912,700.

Referring to claims 2 and 5, the Yuen references discloses all subject matter as discussed in respected claim 1, and a plurality of position units (pan/tilt mount 110 and 116) for positioning the additional cameras (108 and 112) and automatic zoom/focusing and frame (for recording or broadcasting) control for each of the additional video cameras capabilities in response to control signals form the control system (processor 120). However, the reference does not explicitly shows a monitoring unit for transmitting signals representative of an operating status (position, such as pan/ tilt, and zoom/focus parameters) of the master camera to the control system.

The Honey reference disclose in Figure 8, a system for enhancing the television presentation of an object at a sporting event, includes a monitoring unit (zoom/focus sensor

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282, pan sensor 288 and tilt sensor 290) for transmitting signals representative of an operating status of the master camera (broadcast camera 280) to the control system (processor 302 in the remote processor unit 286) (See Col. 9, lines 41-45). The Honey reference is evidence the one of ordinary skill in the art at the time to see more advantage for the camera system including a monitoring unit for detecting the field of view (camera position and focus/zoom parameters) of the camera, so that the system can determine the interested target in free space more actually with respect to a sporting event. For that reason, it would have been obvious to see the camera system having a monitoring unit for transmitting signals representative of an operating status of the master camera to the control system disclosed by Yuen.

8. Claim 3-4, and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen U.S. Publication 2002/0005902 in view of McClintock U.S. Patent 5,598,208.

Referring to claim 3, the Yuen references discloses all subject matter as discussed in respected claim 1, and a recording system for recording the video images produced by the master camera and the additional cameras (See [0016]). However, the reference does not explicitly shows a user interface for selecting particular ones of the video images for display.

The McClintock reference discloses in Figures 1-4, a video camera recording system has a plurality of video cameras (22) and a user interface (input con troll 70) for selecting particular ones of the video images for display (See Col. 6, lines 18-22). The McClintock reference is evidence the one of ordinary skill in the art at the time to see more advantage for the video camera recording system including a user interface so that the viewer has more flexible option for selecting particular ones of the video images for display as he/she wishes

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review. For that reason, it would have been obvious to see the camera system having a user interface for selecting particular ones of the video images for display disclosed by Yuen.

Referring to claim 4, the McClintock reference discloses wherein the user interface permits the sequential selection of individual frames in the video images (See Col. 5, lines 52-65).

Referring to claim 8, the Yuen and McClintock references disclose all subject matter as discussed with respected to same comment as with claim 3.

Referring to claim 9, the Yuen and McClintock references disclose all subject matter as discussed with respected to same comment as with claim 4.

9. Claim 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen U.S. Publication 2002/0005902 in view of Hayashi et al. U.S. Patent 6,160,544.

Referring to claim 6, the Yuen references discloses all subject matter as discussed in respected claim 1, except that the reference does not explicitly show each of the additional cameras also comprising a microphone for supplying signals representative of audio signals received by the microphones to the control system.

The Hayashi reference disclose in Figure 2, a video camera system comprising a plurality of cameras that have microphones; and video signals (containing audio signals picked up by the microphones) from the cameras that are directly supplied to video distributors (See Col. 4, lines 22-31). The Hayashi reference is evidence the one of ordinary skill in the art at the time to see more advantage for the video camera has a microphone build in so that the user can recording both image and audio signal together and transmitter to remote system for

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reviewing late. For that reason, it would have been obvious to see each of the additional cameras also comprising a microphone for supplying signals representative of audio signals received by the microphones to the control system disclosed by Yuen.

10. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen U.S.

Publication 2002/0005902 in view of Hayashi et al. U.S. Patent 6,160,544 and McClintock U.S. Patent 5,598,208.

Referring to claim 10, the Yuen, Hayashi and McClintock references disclose all subject matter as discussed with respect to same comment as with claim 1, 3-4 and 6.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Oswald U.S. 3,217,098 discloses a plurality of spaced cameras are elevated above and positioned around the outside rail of the rack in order to photograph the racing contestants from a heads on position continuously throughout the course to the race as picture in Figure 1.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Lin Ye** whose telephone number is **(703) 305-3250**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on (703) 305-4929.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks


Washington, DC. 20231

Or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive,
Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the Technology Center 2600 Customer Service Office whose telephone
number is (703) 306-0377.


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Lin Ye
May 24, 2004